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1 [A survey of top-k query processing techniques in relational database](#)

[Ihab F. Ilyas, George Beskales, Mohamed A. Soliman](#)

October 2008 Computing Surveys (CSUR) , Volume 40 Issue 4

Publisher: ACM

 Full text available: Pdf (2.02 MB) Additional Information: [full citation](#), [abstract](#), [r](#)

Bibliometrics: Downloads (6 Weeks): 450, Downloads (12 Months): 450, Citati

Efficient processing of top-k queries is a crucial requirement in many int involve massive amounts of data. In particular, efficient top-k processin multimedia search, and distributed ...

Keywords: Top-k, rank aggregation, rank-aware processing, voting

2 [Index-driven similarity search in metric spaces \(Survey Article\)](#)

[Gisli R. Hjaltason, Hanan Samet](#)

December 2003 Transactions on Database Systems (TODS) , Volume 28 I:

Publisher: ACM

 Full text available: Pdf (650.64 KB) Additional Information: [full citation](#), [abstract](#), [r](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 248, Citatio

Similarity search is a very important operation in multimedia databases involving complex objects, and involves finding objects in a data set S based on some similarity measure. ...

Keywords: Hierarchical metric data structures, distance-based indexing range queries, ranking, similarity searching

3 [Identifying Crosscutting Concerns Using Fan-In Analysis](#)

[Marius Marin, Arie Van Deursen, Leon Moonen](#)

December 2007 Transactions on Software Engineering and Methodolo

Publisher: ACM

 Full text available: Pdf (1.76 MB) Additional Information: [full citation](#), [abstract](#), [r](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 417, Citatio

Aspect mining is a reverse engineering process that aims at finding cros systems. This article proposes an aspect mining approach based on det called from many different places, and hence have a high ...

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Keywords: Aspect-oriented programming, crosscutting concerns, fan-in

4 [Making database systems usable](#)

 H. V. Jagadish, Adriane Chapman, Aaron Elkiss, Magesh Jayapandian, Yuny June 2007 SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on Management of data

Publisher: ACM


Full text available:  [Mov](#) (71:41 MIN),  [Pdf](#) (366.14 KB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 131, Downloads (12 Months): 948, Citations: 0



Database researchers have striven to improve the capability of a database system to support a wide range of queries. We assert that the *usability* of a database system is a key factor in its performance and functionality. In this paper, we study why database systems ...

Keywords: database, usability, user interface

5 [Communications of the ACM: Volume 51 Issue 3](#)

 March 2008 Communications of the ACM

Publisher: ACM


Full text available:  [Digital Edition](#),  [Pdf](#) (7.56 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 437, Downloads (12 Months): 1224, Citations: 0

6 [Automated creation of a forms-based database query interface](#)

August 2008 Proceedings of the VLDB Endowment, Volume 1 Issue 1


Publisher: VLDB Endowment

Full text available:  [Pdf](#) (583.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#)



Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citations: 0

Forms-based query interfaces are widely used to access databases today. The design of a query interface is often a key step in the deployment of a database. Each form of expressing only a very limited range of queries. ...

7 [Communications of the ACM: Volume 51 Issue 10](#)


 October 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (7.16 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 11068, Downloads (12 Months): 11068, Citations: 0

8 [Information fusion for wireless sensor networks: Methods, models, and applications](#)

 Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro C. Frery

September 2007 Computing Surveys (CSUR), Volume 39 Issue 3

Publisher: ACM

Full text available:  [Pdf](#) (1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 471, Downloads (12 Months): 3966, Citations: 0

Wireless sensor networks produce a large amount of data that needs to be processed and analyzed. This paper presents a survey of the state-of-the-art in the area of information fusion for wireless sensor networks. ...

assessed according to the application objectives. The way these data are aggregated across nodes is a fundamental issue. Information fusion arises ...

Keywords: Information fusion, architectures and models, data aggregation, sensor networks

9 [Astrolabe: A robust and scalable technology for distributed system management](#)



data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 Transactions on Computer Systems (TOCS) , Volume 21 Issue

Publisher: ACM

Full text available: Pdf (341.62 KB)

Additional Information: [full citation](#), [abstract](#), [metrics](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 355, Citations: 1

Scalable management and self-organizational capabilities are emerging in the next generation of large-scale, highly dynamic, distributed applications. We have designed a distributed information management system called Astrolabe. ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, information management, scalability

10 [Communications of the ACM: Volume 51 Issue 7](#)



July 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (6.54 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 4818, Downloads (12 Months): 4818, Citations: 1

11 [Optimized stratified sampling for approximate query processing](#)



Surajit Chaudhuri, Gautam Das, Vivek Narasayya

June 2007 Transactions on Database Systems (TODS) , Volume 32 Issue

Publisher: ACM

Full text available: Pdf (748.77 KB)

Additional Information: [full citation](#), [abstract](#), [metrics](#)

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 234, Citations: 1

The ability to approximately answer aggregation queries accurately and efficiently is a key requirement for many data mining and decision support applications. In contrast to previous sampling methods, we propose a new sampling problem as an optimization problem where, ...

Keywords: Random sampling, approximation, query processing

12 [Dynamic data fusion for future sensor networks](#)



Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Cooper, Shin, Phillip Hutto, Arnab Paul

August 2006 Transactions on Sensor Networks (TOSN) , Volume 2 Issue 3

Publisher: ACM


Full text available: Pdf (2.44 MB)

Additional Information: [full citation](#), [abstract](#), [metrics](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 362, Citations: 1




DFuse is an architectural framework for dynamic application-specified d. bridges an important abstraction gap for developing advanced fusion ap account the dynamic nature of applications and sensor ...



Keyw ords: Sensor network, data fusion, energy awareness, in-network platform, role assignment

- 13 [MRNet: A Software-Based Multicast/Reduction Network for Scalable](#)
[Philip C. Roth, Dorian C. Arnold, Barton P. Miller](#)
November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on S
Publisher: IEEE Computer Society
Full text available:  [Pdf \(176.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation (

We present MRNet, a software-based multicast/reduction network for bi and system administration tools. MRNet supports multiple simultaneous communication operations. MRNet is flexible, allowing tool ...


Keyw ords: Scalability, tools, multicast, reduction,aggregation

- 14 [Communications of the ACM: Volume 51 Issue 2](#)
 February 2008 Communications of the ACM
Publisher: ACM
Full text available:  [Digital Edition](#) ,  [Pdf \(3.89 MB\)](#) Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 359, Downloads (12 Months): 2379, Cita

- 15 [Design and evaluation of a wide-area event notification service](#)
 [Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf](#)
August 2001 Transactions on Computer Systems (TOCS) , Volume 19 Issue
Publisher: ACM
Full text available:  [Pdf \(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 280, Citatio


The components of a loosely coupled system are typically designed to o responding to asynchronous events. An event notification service is an : infrastructure that supports the construction ...


Keyw ords: content-based addressing and routing, event notification, p

- 16 [Fast detection of communication patterns in distributed executions](#)
[Thomas Kunz, Michiel F. H. Seuren](#)
November 1997 CASCON '97: Proceedings of the 1997 conference of the C
Collaborative research
Publisher: IBM Press
Full text available:  [Pdf \(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 649, Citatio

Understanding distributed applications is a tedious and difficult task. Vis
time diagrams are often used to obtain a better understanding of the ex
visualization tool we use is Poet, an event ...

17 [Global grid monitoring: the EGEE/WLOG case](#)

 [Alexandre Nobrega Duarte, Piotr Nyczyk, Antonio Retico, Domenico Vicinar](#)
June 2007 GMW '07: Proceedings of the 2007 workshop on Grid monitori
Publisher: ACM


Full text available:  [Pdf](#) (307.31 KB) Additional Information: [full citation](#), [abstract](#), [r](#)


Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 134, Citation

Grids have the potential to revolutionize computing by providing ubiquit
computational services and resources. However, grid systems are extre
to failures. In this paper we present a tool able to to ...

Keywords: EGEE, WLOG, grid monitoring, service availability monitorin

18 [Semi-automated discovery of application session structure](#)

 [Jayanthkumar Kannan, Jaeyeon Jung, Vern Paxson, Can Emre Koksai](#)
October 2006 IMC '06: Proceedings of the 6th ACM SIGCOMM conference o
Publisher: ACM


Full text available:  [Pdf](#) (278.77 KB) Additional Information: [full citation](#), [abstract](#), [r](#)



Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 82, Citation

While the problem of analyzing network traffic at the granularity of indiv
considerable previous work and tool development, understanding traffic
of user-initiated *sessions* comprised ...

Keywords: anomaly detection, application sessions, traffic analysis


19 [Communications of the ACM: Volume 51 Issue 8](#)

 August 2008 Communications of the ACM
Publisher: ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (6.85 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 971, Downloads (12 Months): 1562, Cita

20 [Schema modelling for automatic generation of multimedia presentati](#)

 [Augusto Celentano, Ombretta Gaggi](#)
July 2002 SEKE '02: Proceedings of the 14th international conference on
knowledge engineering
Publisher: ACM





Full text available:  [Pdf](#) (169.46 KB) Additional Information: [full citation](#), [abstract](#), [r](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 30, Citation (

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